

FIG. 1

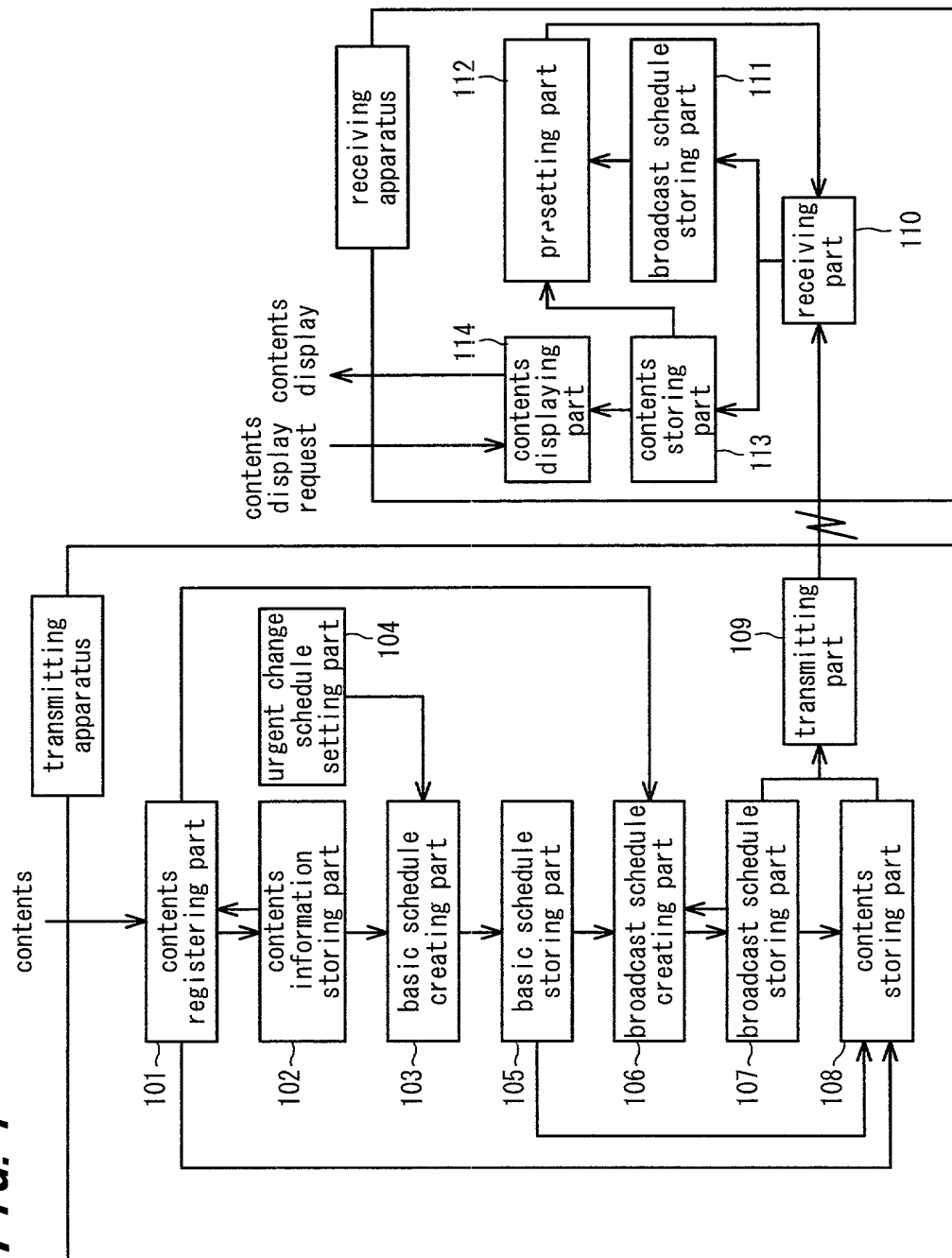


FIG. 2

contents information

Content_ID	contents attributes			
	billing	update frequency	size (MB)	area
1	no	once a day	500	all the country
2	Gold	once a day	4000	Hokkaido
3	Silver	once a week	1500	Tokai
4	Bronze	once a week	1000	Kyushu
5	Silver	once a day	2000	Kanto
6	Gold	once a day	1000	Hokkaido
7	no	once a day	1000	all the country
700	no	force start	1000	all the country

FIG. 3

series table		attributes		
series ID		billing	update frequency	maximum size (MB)
100	series for force start			
		no	force start	—
1		no	once a day	2000
2	preset portion	Gold	once a day	4000
3		Silver	once a week	2000
4		Bronze	once a week	2000
5		Silver	once a day	4000
⋮		⋮	⋮	⋮
19	standby portion	Gold	once a day	1000
20		⋮	⋮	⋮
⋮				

301

302

FIG. 4

series and contents correspondence table

series ID	contents group			transmission time for each series	
	Content_id1	Content_id7	maximum size (MB)	transmission time (hour)	
1			1500	0.40	
2	Content_id2		4000	1.00	401
3	Content_id3		1500	0.40	
4	Content_id4		1000	0.25	
5	Content_id5		2000	0.50	
⋮	⋮	⋮	⋮	⋮	
19	Content_id6		1000	0.25	402
100	Content_id700		1500	0.40	

FIG. 5

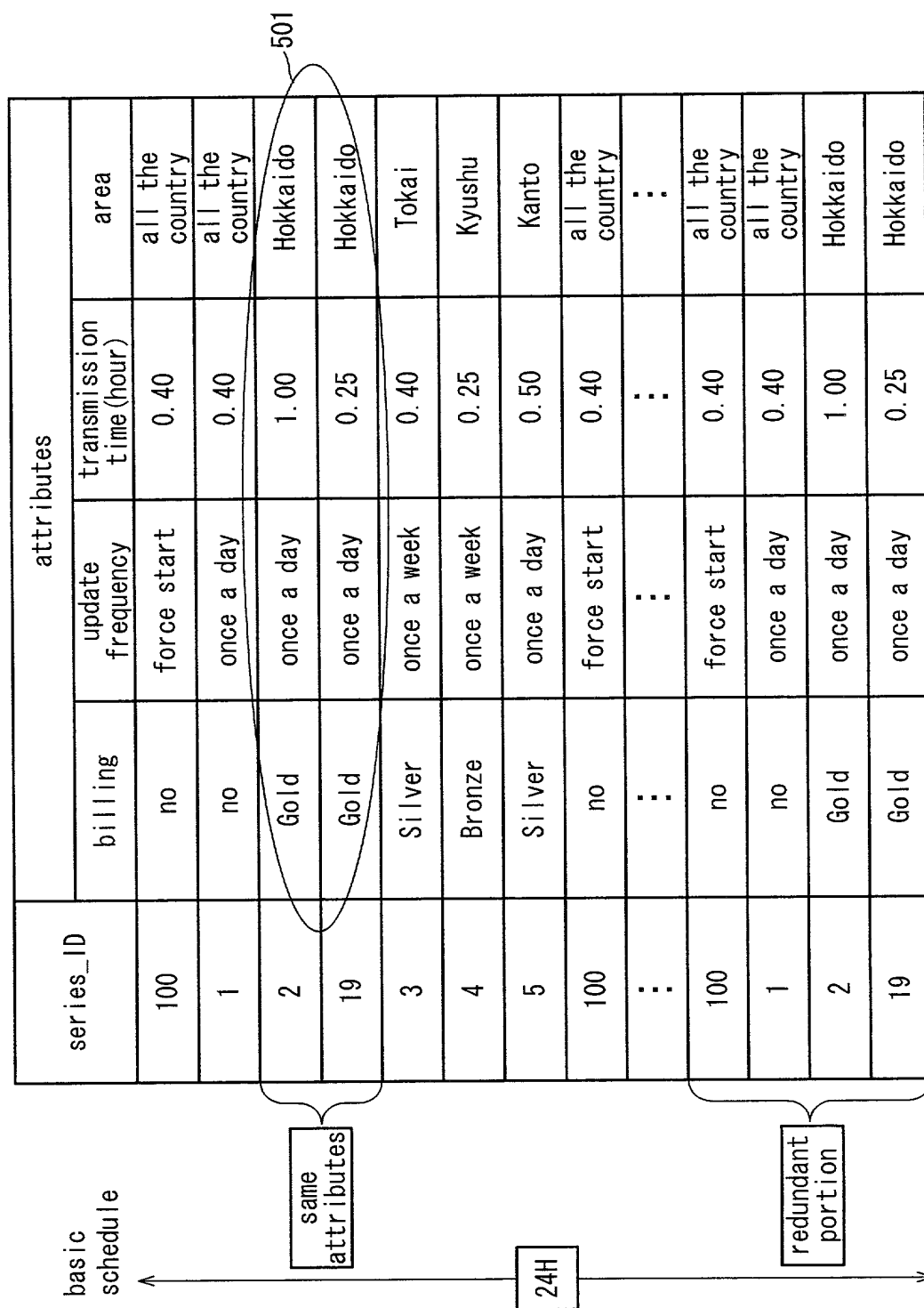


FIG. 6

broadcast schedule (3/13/2001)

broadcast time	series_ID	attributes			episode_ number
		billing	actual size(MB)	area	
0:00~0:24	100	no	1500	all the country	13
0:24~0:48	1	no	1500	all the country	5
0:48~1:48	2	Gold	4000	Hokkaido	5
1:48~2:03	19	Gold	1000	Hokkaido	5
2:03~2:27	3	Silver	1500	Tokai	4
2:27~2:42	4	Bronze	1000	Kyushu	3
2:42~3:12	5	Silver	2000	Kanto	5
3:12~3:36	100	no	1500	all the country	14
:	:	:	:	:	:
21:57~22:21	100	no	1500	all the country	20
22:21~22:45	1	no	1500	all the country	5
22:45~23:45	2	Gold	4000	Hokkaido	5
23:45~24:00	19	Gold	1000	Hokkaido	5

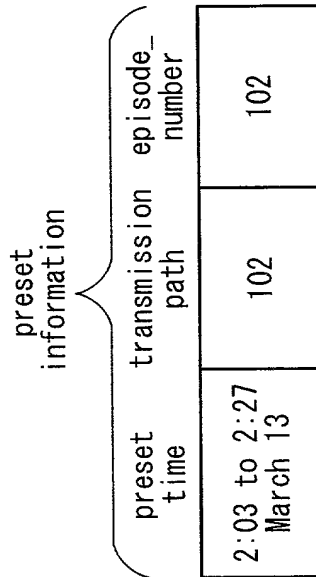
FIG. 7

stored final episode_number table

series_ID	stored final episode_number	transmission path (service ID)
1	5	105
2	5	101
3	3	102
4	3	103
5	5	104
.	.	.
.	.	.
19	5	101

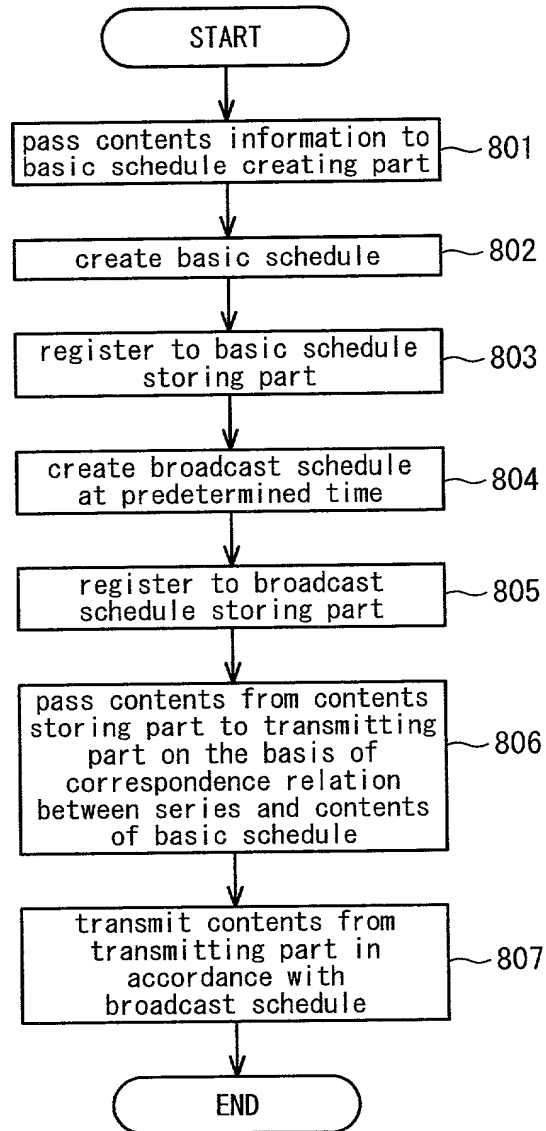


series_ID	stored final episode_number	transmission path (service ID)
1	5	105
2	5	101
3	4	102
4	3	103
5	5	104
.	.	.
.	.	.
19	5	101



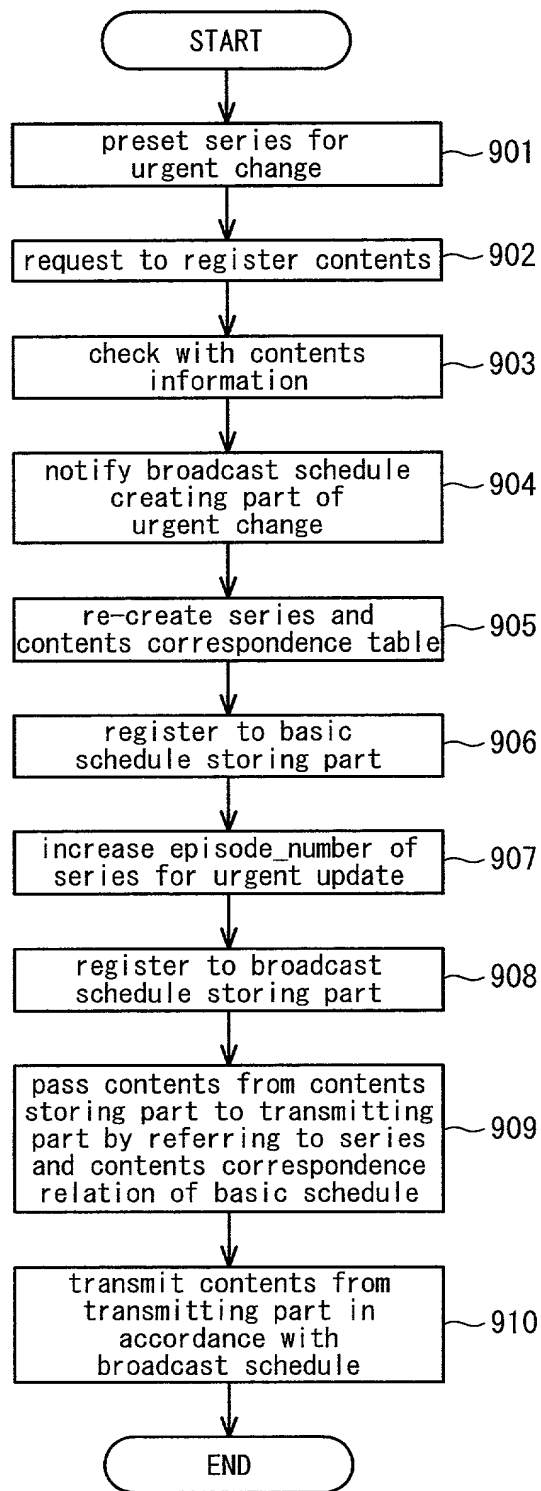
store and register

FIG. 8



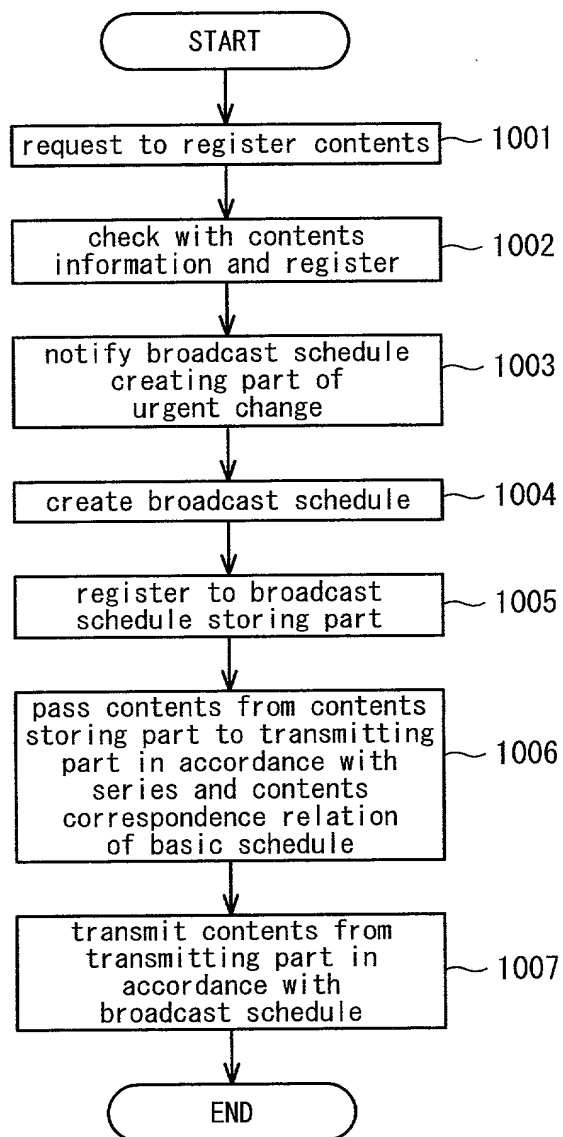
10090618 "031802"

FIG. 9



10090518.031800

FIG. 10



10098618.031800

FIG. 11

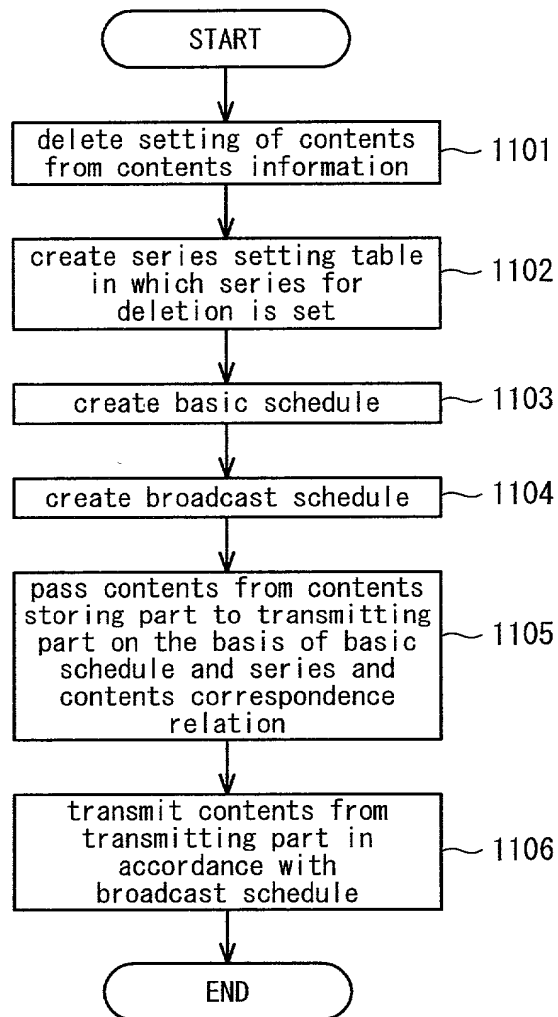
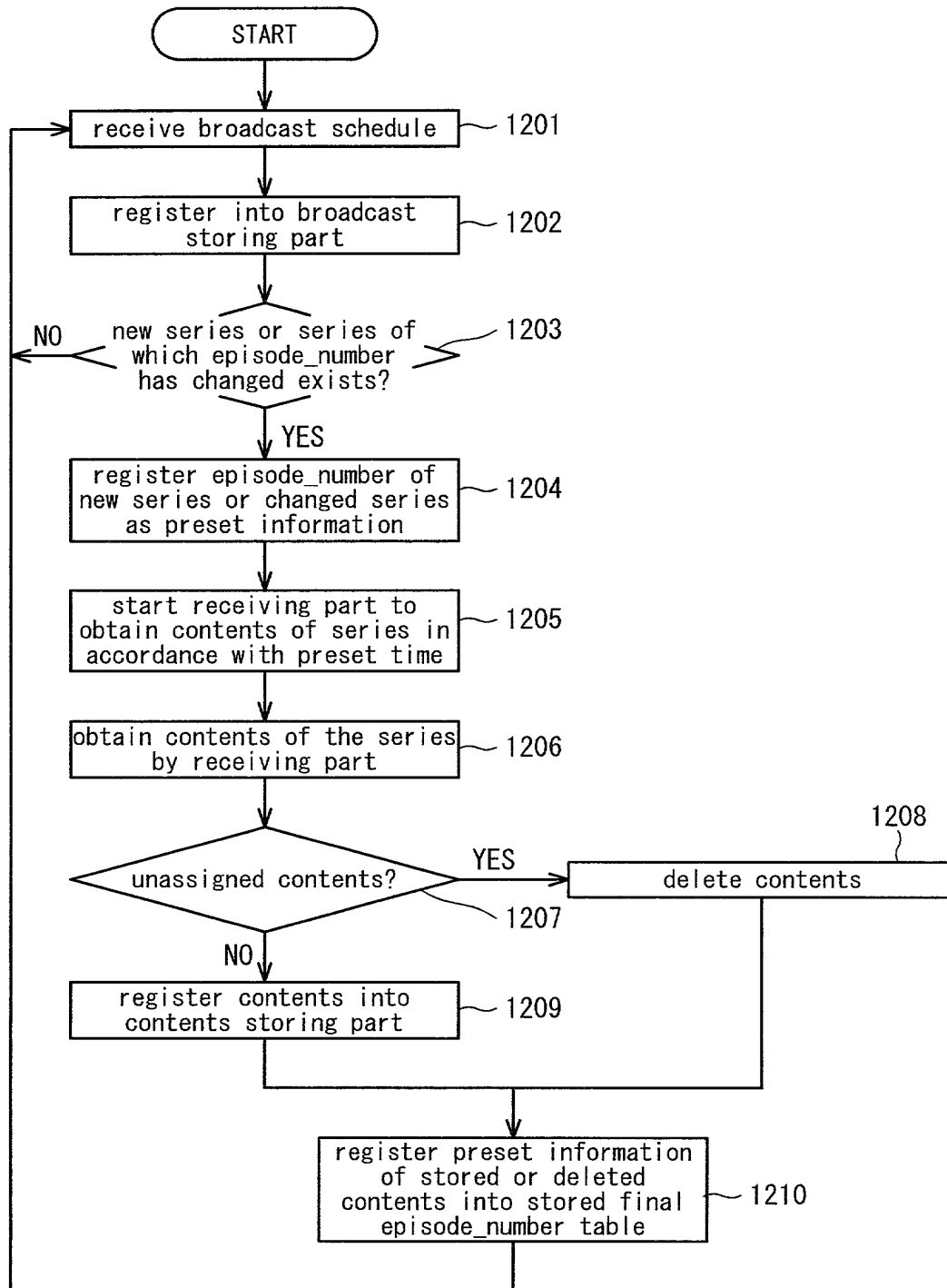


FIG. 12



series setting table

FIG. 13

series ID	attributes			
	billing	update frequency	maximum size (MB)	area
100	series for force start			all the country
	no	force start	2000	
1	no	once a day	2000	all the country
2	Gold	once a day	4000	Hokkaido
3	Silver	once a week	2000	Tokai
4	Bronze	once a week	2000	Kyushu
5	Silver	once a day	4000	Kanto
⋮	⋮	⋮	⋮	⋮
19	Gold	once a day	1000	Hokkaido
20	⋮	⋮	⋮	⋮

preset portion

standby portion

FIG. 14

broadcast schedule (3/12/2001)

broadcast time	series_ID	attributes			episode_ number
		billing	actual size (MB)	area	
0:00~0:24	100	no	1500	all the country	5
0:24~0:48	1	no	1500	all the country	4
0:48~1:48	2	Gold	4000	Hokkaido	4
1:48~2:03	19	Gold	1000	Hokkaido	4
2:03~2:27	3	Silver	1500	Tokai	4
2:27~2:42	4	Bronze	1000	Kyushu	2
2:42~3:12	5	Silver	2000	Kanto	4
3:12~3:36	100	no	1500	all the country	6
:	:	:	:	:	:
21:57~22:21	100	no	1500	all the country	12
22:21~22:45	1	no	1500	all the country	4
22:45~23:45	2	Gold	4000	Hokkaido	4
23:45~24:00	19	Gold	1000	Hokkaido	4

FIG. 15

series setting table in which series for urgent change is set

series ID	attributes			area
	billing	update frequency	maximum size (MB)	
100	series for force start			all the country
	no	force start	2000	
200	no	urgent change	2000	all the country
1	no	once a day	2000	all the country
2	Gold	once a day	4000	Hokkaido
3	Silver	once a week	2000	Tokai
4	Bronze	once a week	2000	Kyushu
5	Silver	once a day	4000	Kanto
:	:	:	:	:
19	Gold	once a day	1000	Hokkaido
20	:	:	:	:
:	:	:	:	:

preset portion

standby portion

FIG. 16

series and contents correspondence table

series ID	contents group					transmission time of each series	
	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	maximum size (MB)	transmission time (hour)
1	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	1500	0.40
2	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	4000	1.00
3	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	1500	0.40
4	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	1000	0.25
5	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	2000	0.50
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
19	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	1000	0.25
100	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	1500	0.40
200	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	1500	0.40

FIG. 17

series and contents correspondence table

series ID	contents group					transmission time of each series	
	Content_id1	Content_id2	Content_id3	Content_id4	Content_id5	maximum size (MB)	transmission time (hour)
1						1500	0.40
2						4000	1.00
3						1500	0.40
4						1000	0.25
5						2000	0.50
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
19						1000	0.25
100						1500	0.40
200						1500	0.40

FIG. 18

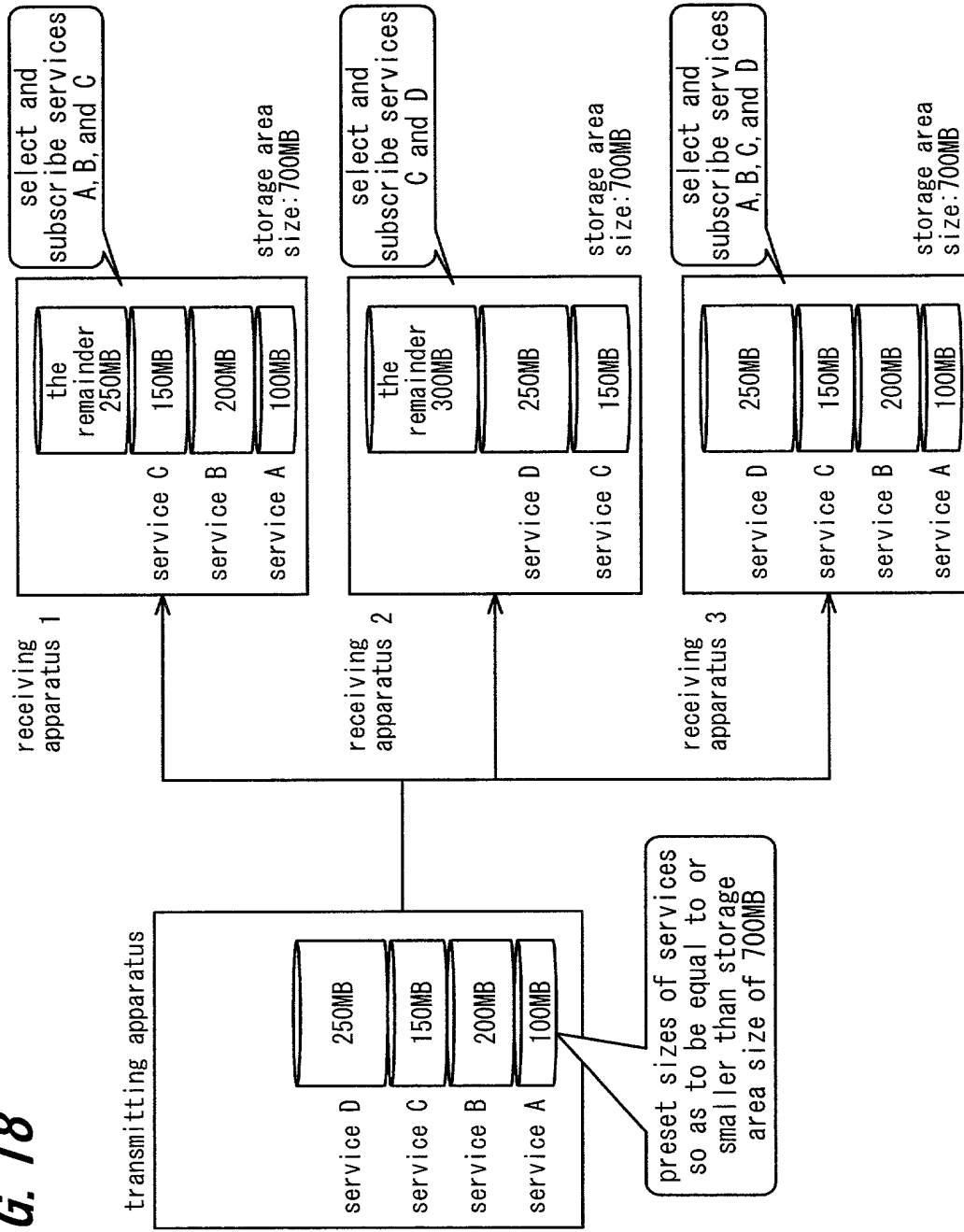


FIG. 19

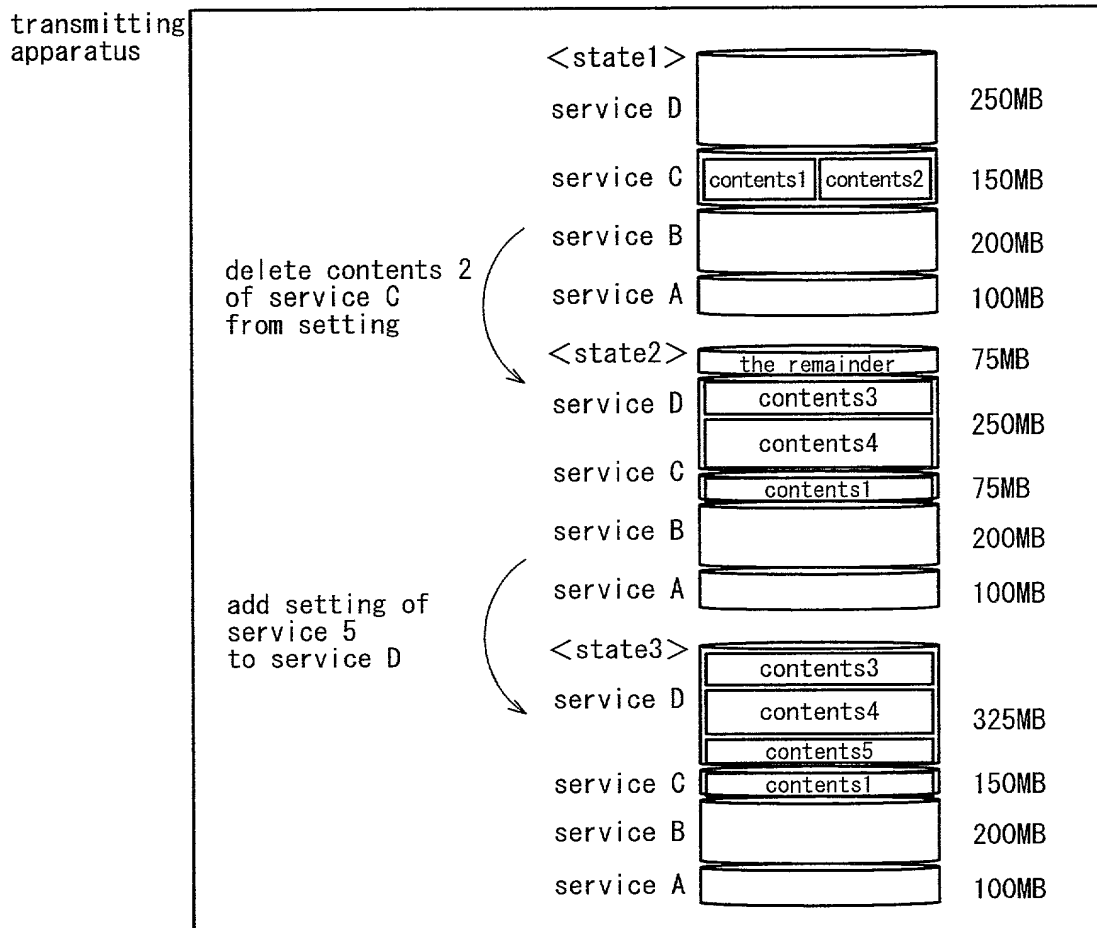


FIG. 20

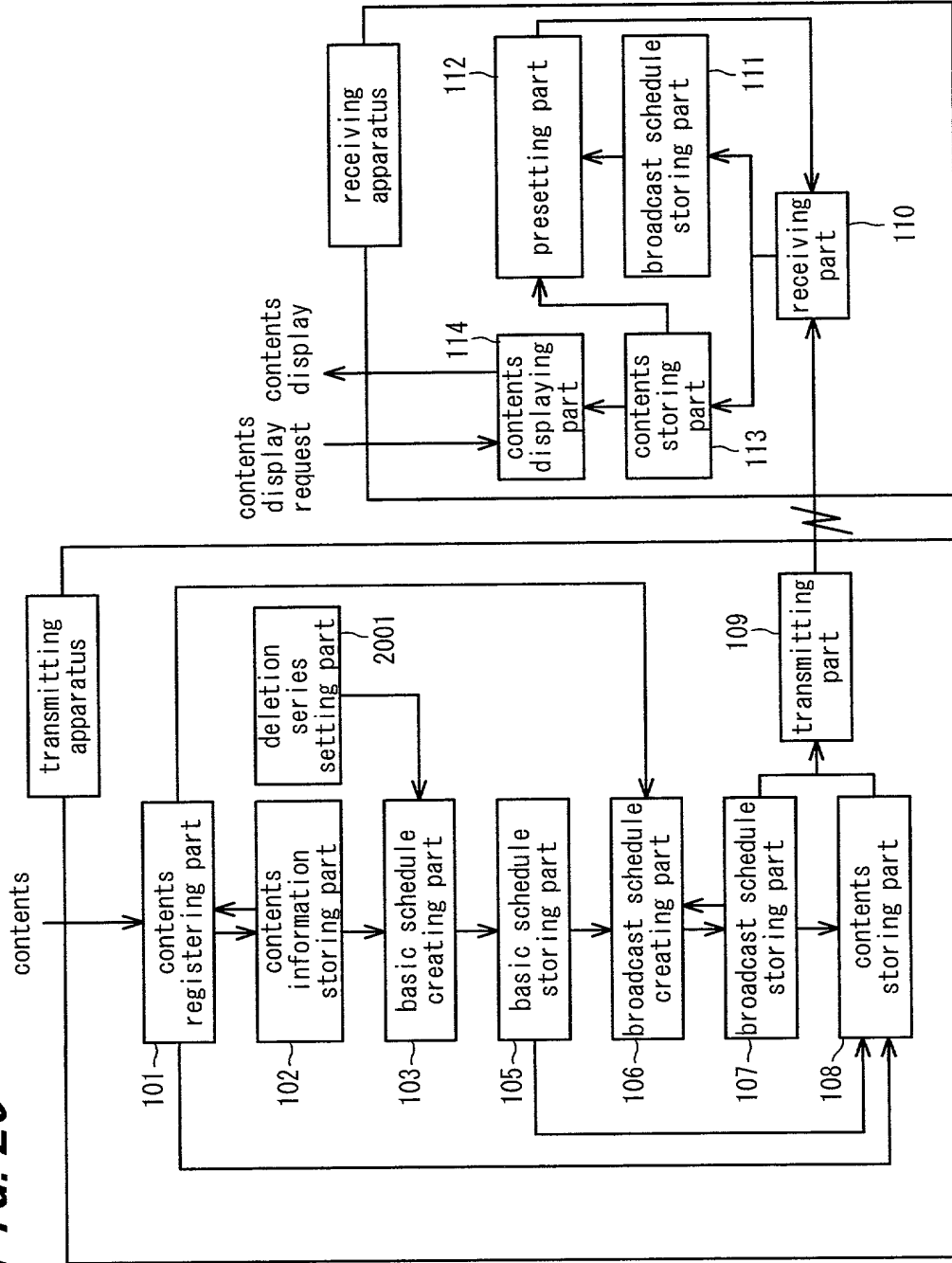


FIG. 21

series setting table in which series for deletion is set

series ID	attributes			area
	billing	update frequency	maximum size (MB)	
100	series for force start			all the country
	no	force start	2000	
201	no	deletion	2000	all the country
1	no	once a day	2000	all the country
2	Gold	once a day	4000	Hokkaido
3	Silver	once a week	2000	Tokai
4	Bronze	once a week	2000	Kyushu
5	Silver	once a day	4000	Kanto
⋮	⋮	⋮	⋮	⋮
19	Gold	once a day	1000	Hokkaido
20	⋮	⋮	⋮	⋮

preset portion

standby portion

FIG. 22

contents information

Content_ID	contents attributes				deletion
	billing	update frequency	size (MB)	area	
1	no	once a day	500	all the country	
2	Gold	once a day	4000	Hokkaido	
3	Silver	once a week	1500	Tokai	
4	Bronze	once a week	1000	Kyushu	
5	Silver	once a day	2000	Kanto	
6	Gold	once a day	1000	Hokkaido	
7	no	once a day	1000	all the country	
77	Gold	once a day	1000	all the country	O
700	no	force start	1000	all the country	

FIG. 23

series and contents correspondence table

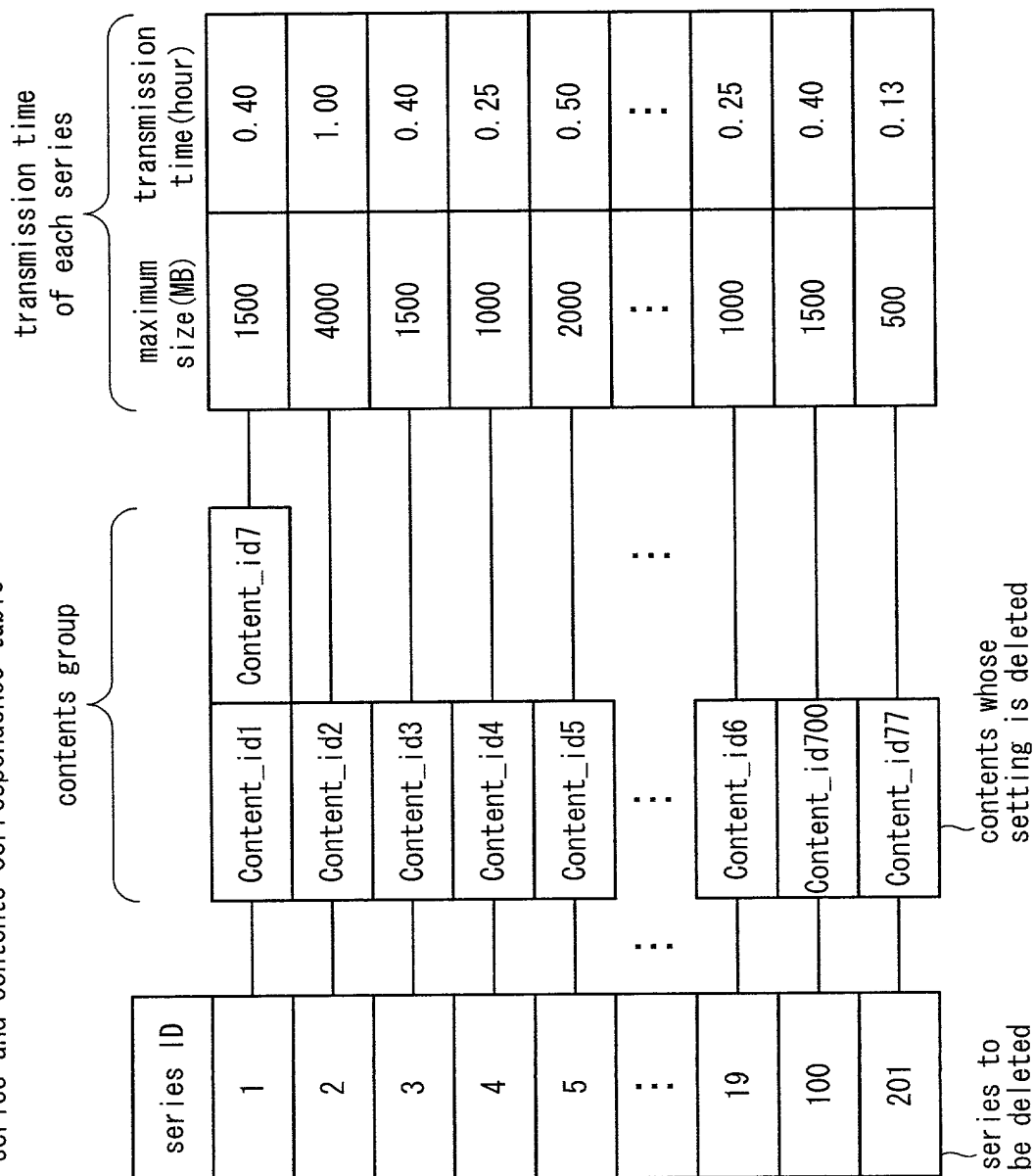


FIG. 24

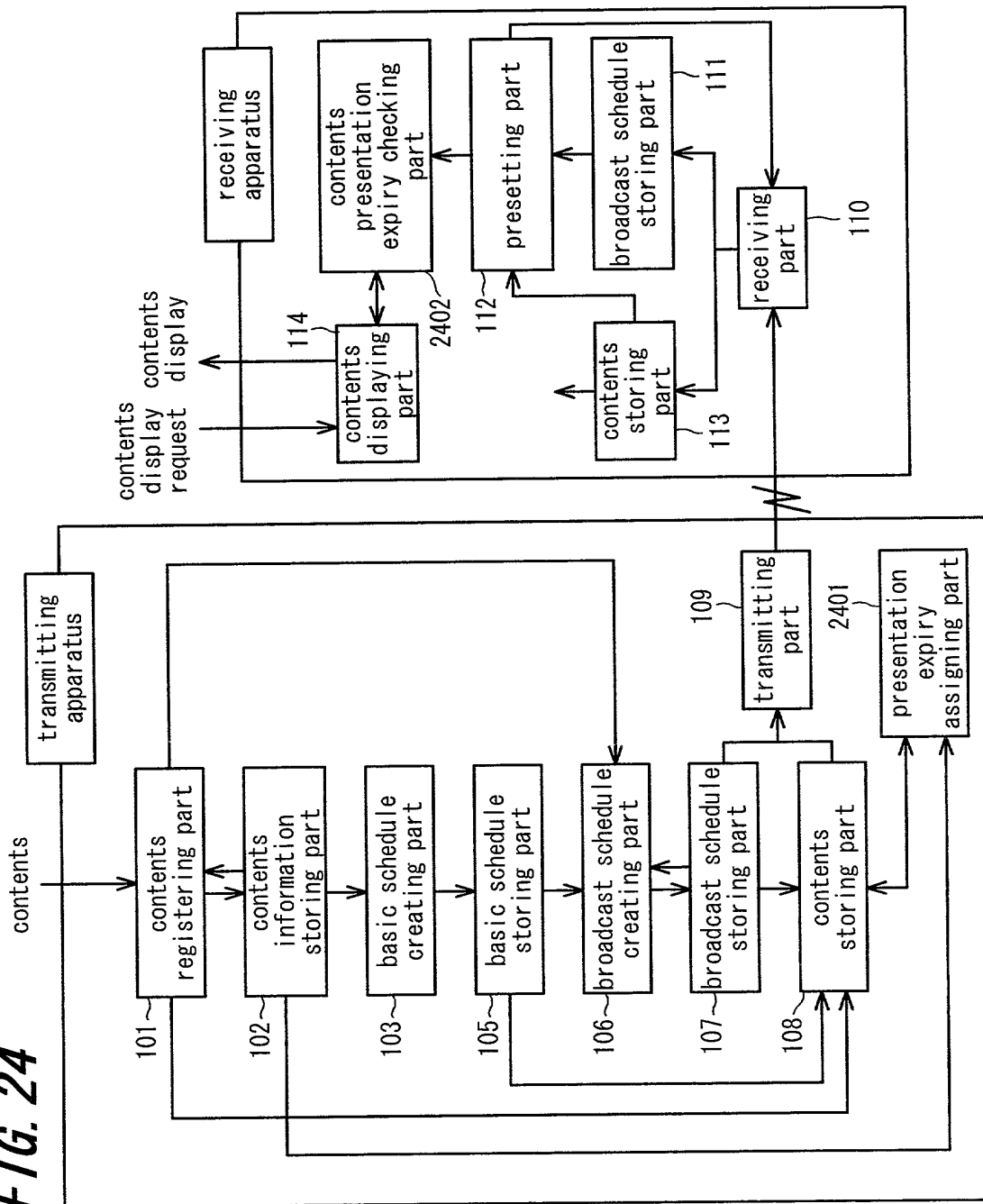


FIG. 25

contents information

Content_ID	contents attributes					
	billing	update frequency	size (MB)	area	start date	end date
1	no	once a day	500	all the country	2001/10/01	2002/09/30
2	Gold	once a day	4000	Hokkaido	2001/07/01	2002/03/31
3	Silver	once a week	1500	Tokai	2001/07/01	2002/09/30
4	Bronze	once a week	1000	Kyushu	2001/10/01	2002/03/31
5	Silver	once a day	2000	Kanto	2001/04/01	2002/03/31
6	Gold	once a day	1000	Hokkaido	2001/07/01	2002/09/30
7	no	once a day	1000	all the country	2001/10/01	2002/09/30

FIG. 26

contents presentation expiry extension interval table

contents presentation expiry extension interval	1 month
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FIG. 27

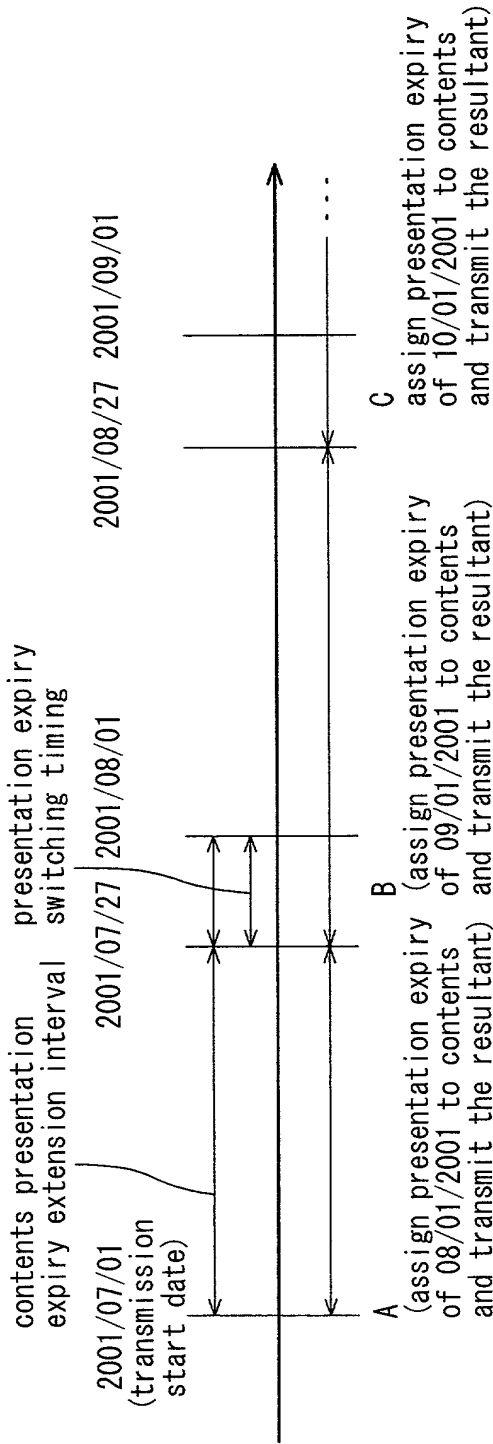


FIG. 28

correspondence table of presentation expiry assigned
to contents of Content_id2 and assignment period

presentation expiry to be assigned	assignment period
2001/08/01	2001/07/01~2001/07/26
2001/09/01	2001/07/27~2001/08/26
2001/10/01	2001/08/26~2001/09/25
...	...

FIG. 29

presentation expiry switching timing table

presentation expiry switching timing	5 days before expiry
---	-------------------------

FIG. 30

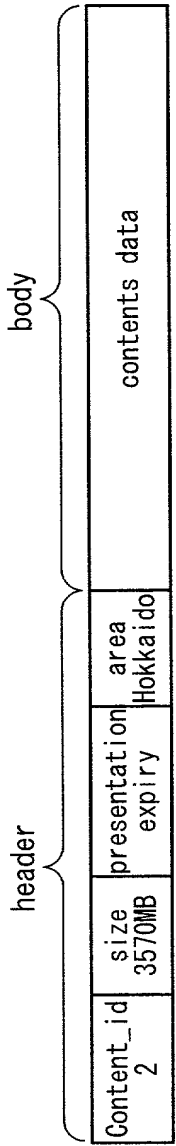
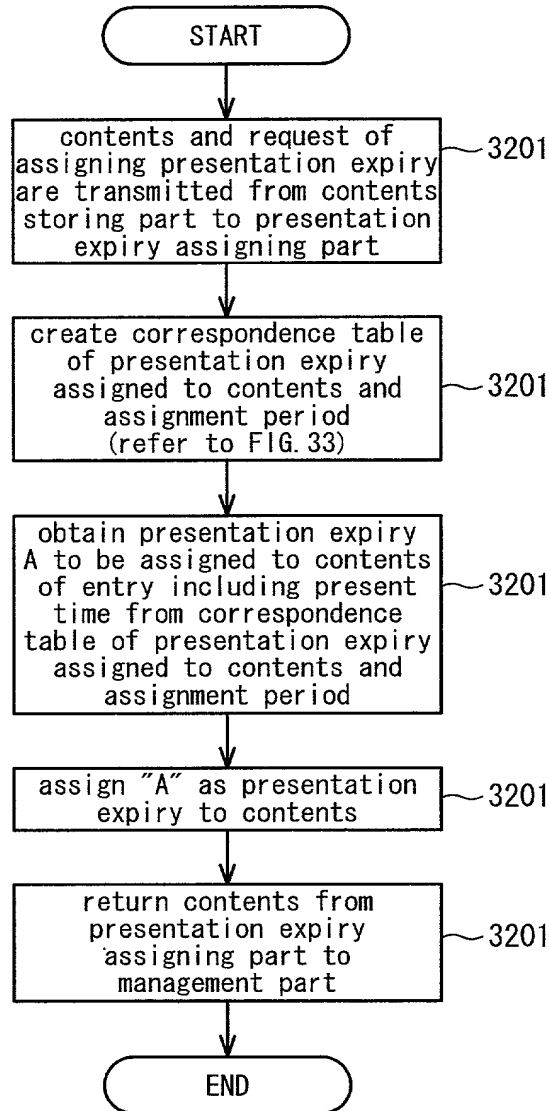


FIG. 31

contents management table

Content_id	size (MB)	storage destination	presentation expiry
1	1245	0x8900	2001/08/01
2	3570	0x763A	2001/08/01
3	980	0X12F7	2001/08/01
...

FIG. 32



10096618.031803
"2022-03-18 10:09:03"

FIG. 33

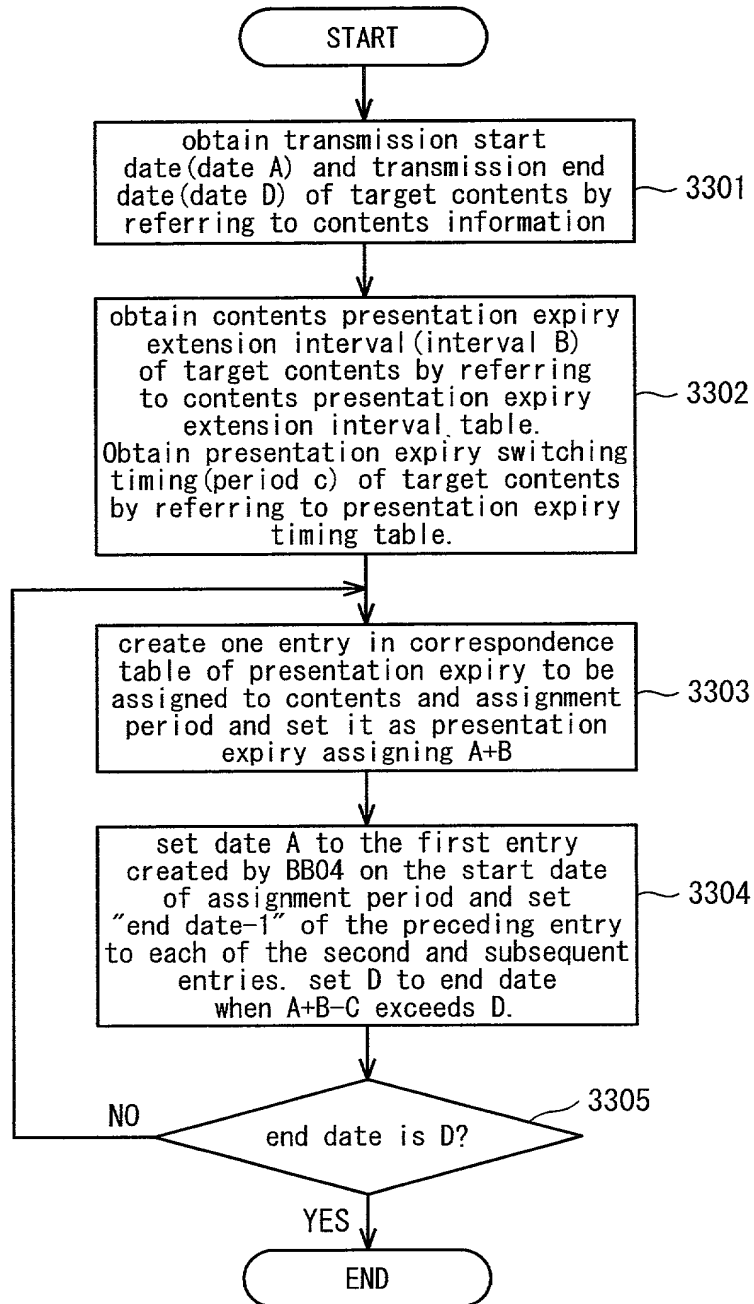


FIG. 34

Table of policy of setting series for force start

policy of setting series for force start	every 2.8 hours
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100998618 " 031807

FIG. 35

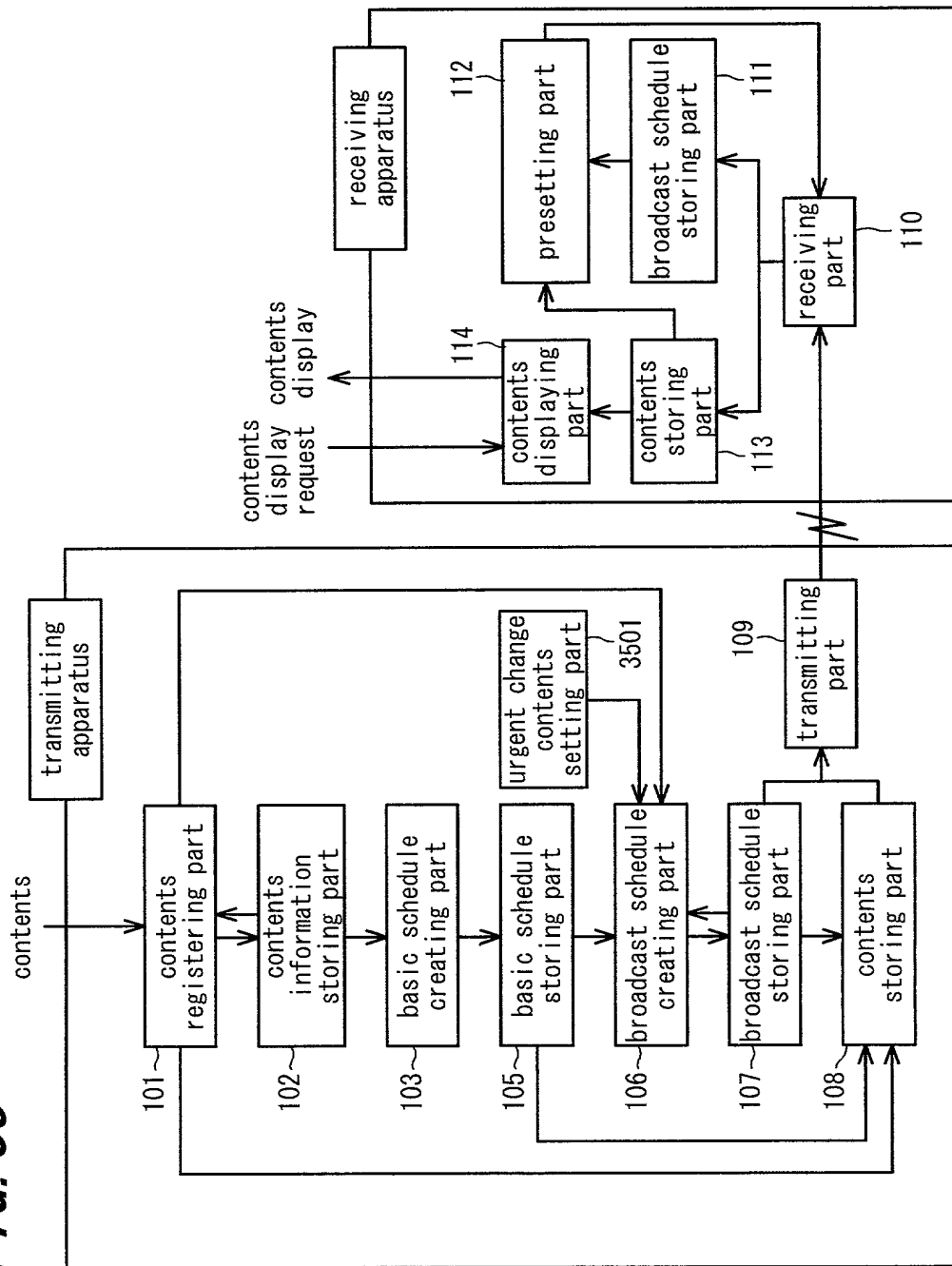


FIG. 36

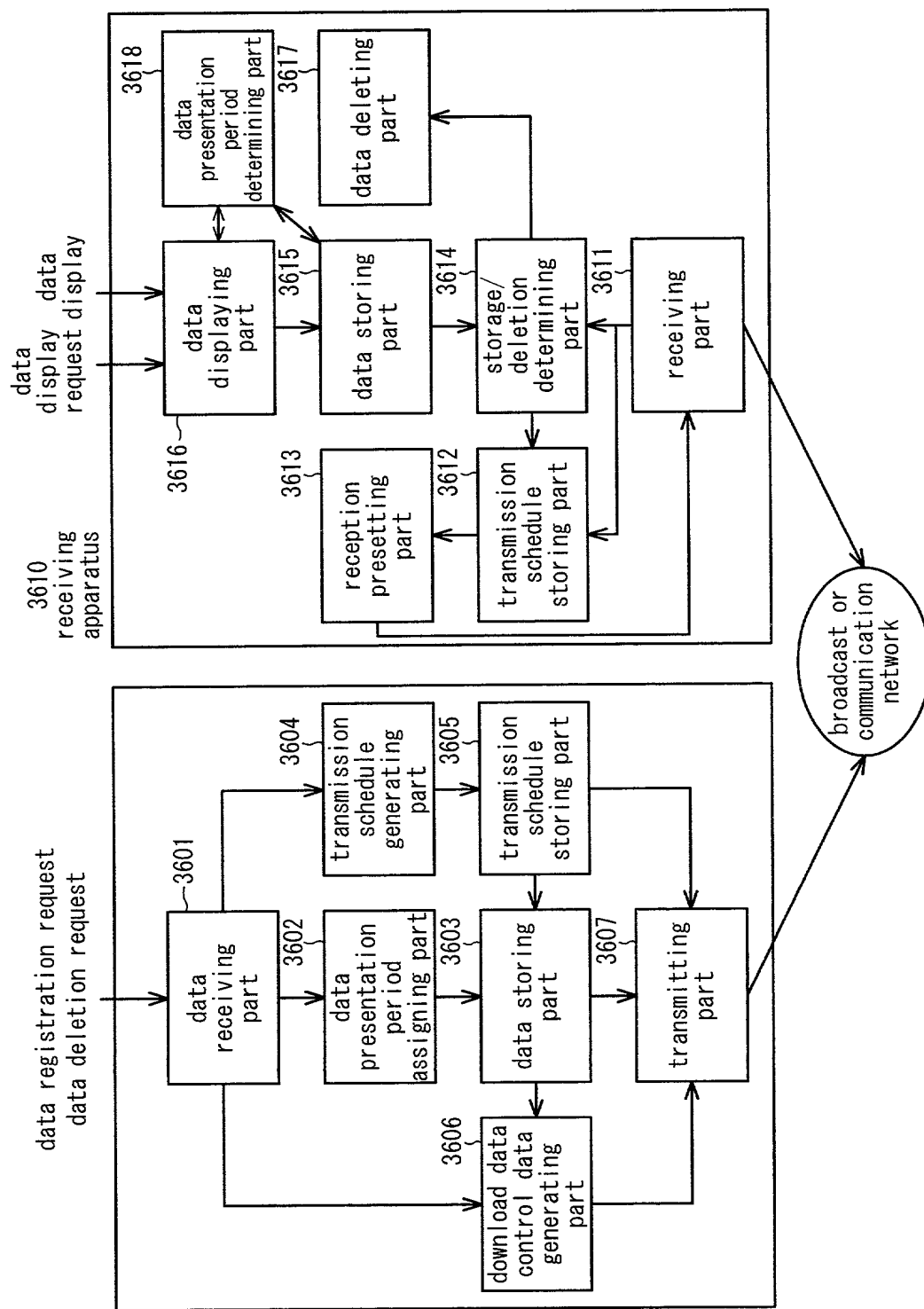
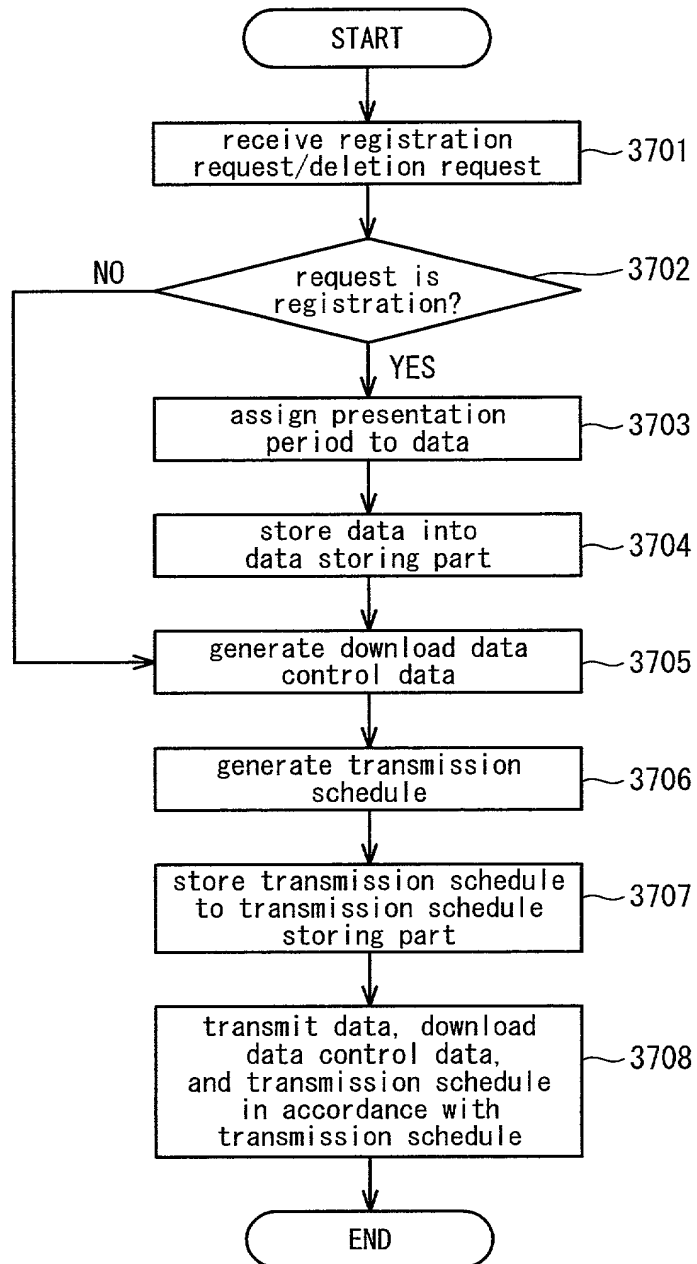


FIG. 37



10098618 "031800"

FIG. 38

download data control data for
the purpose of storing data

```
path name:/A/B/D
presentation period:
10/10/2001 to 10/31/2001
the number of download
data:4
(repeat) {
download data number:X
download data path name:
/A/B/D/xxx
}
```

download data control data for
the purpose of deleting data

```
path name:/A/B/D
presentation period:
10/10/2001 to 10/31/2001
the number of download
data:0
```

download data

```
download data number:1
download data path name:
/A/B/D/xxx
...
```

```
download data number:2
download data path name:
/A/B/D/yyy
...
```

⋮

FIG. 39

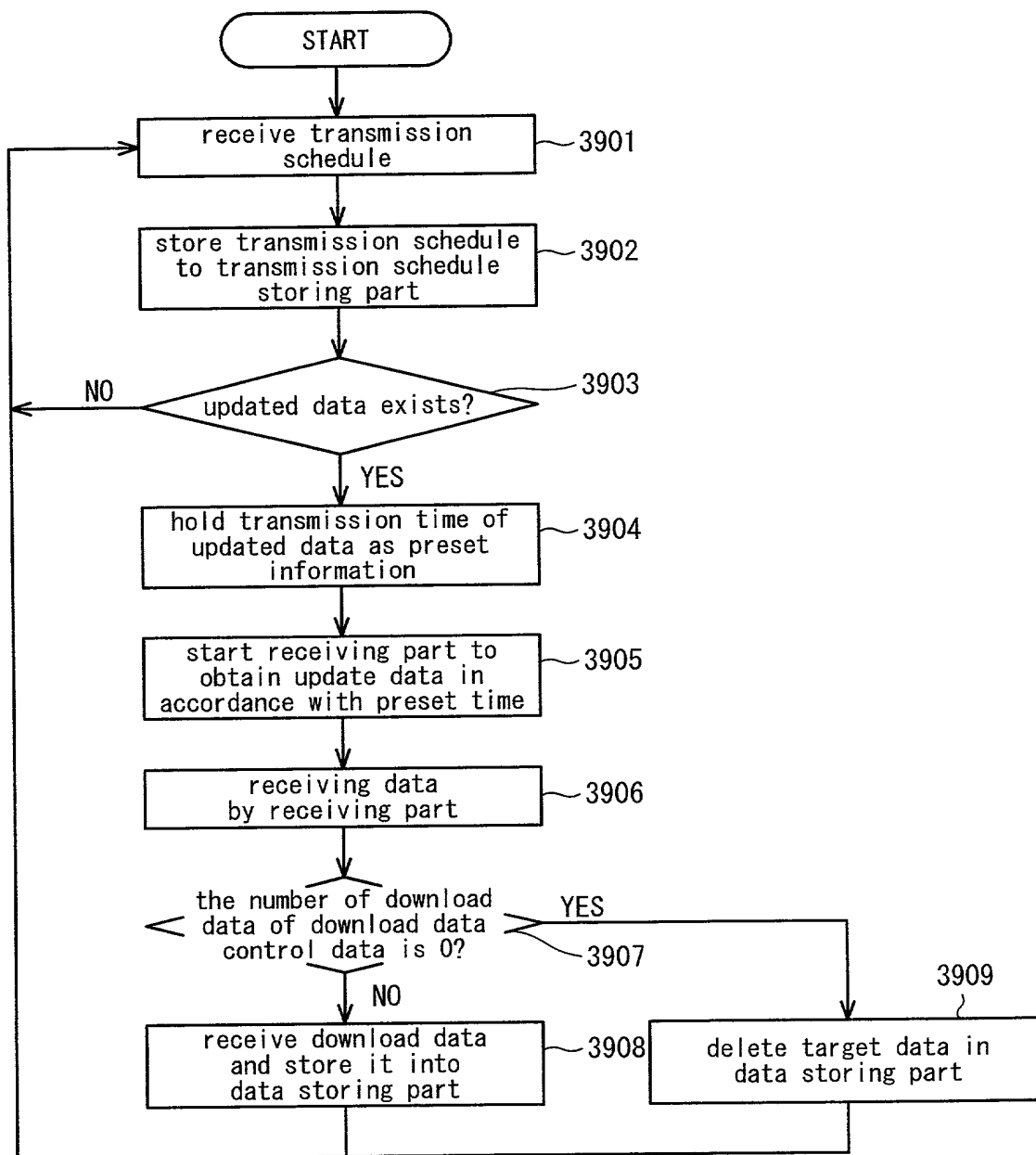


FIG. 40

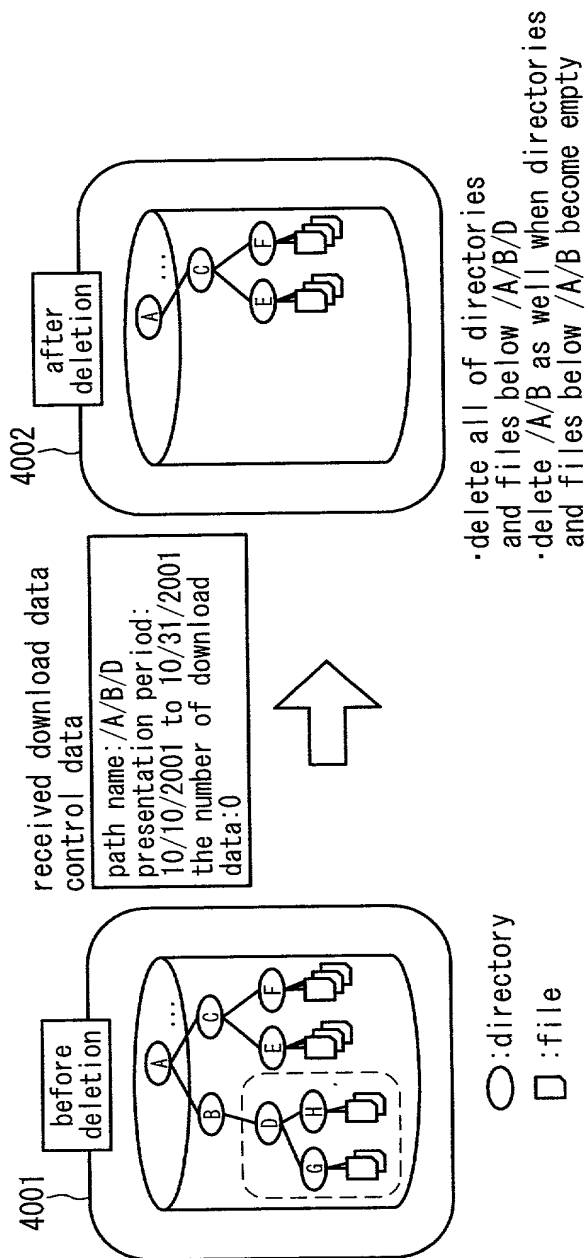


FIG. 41

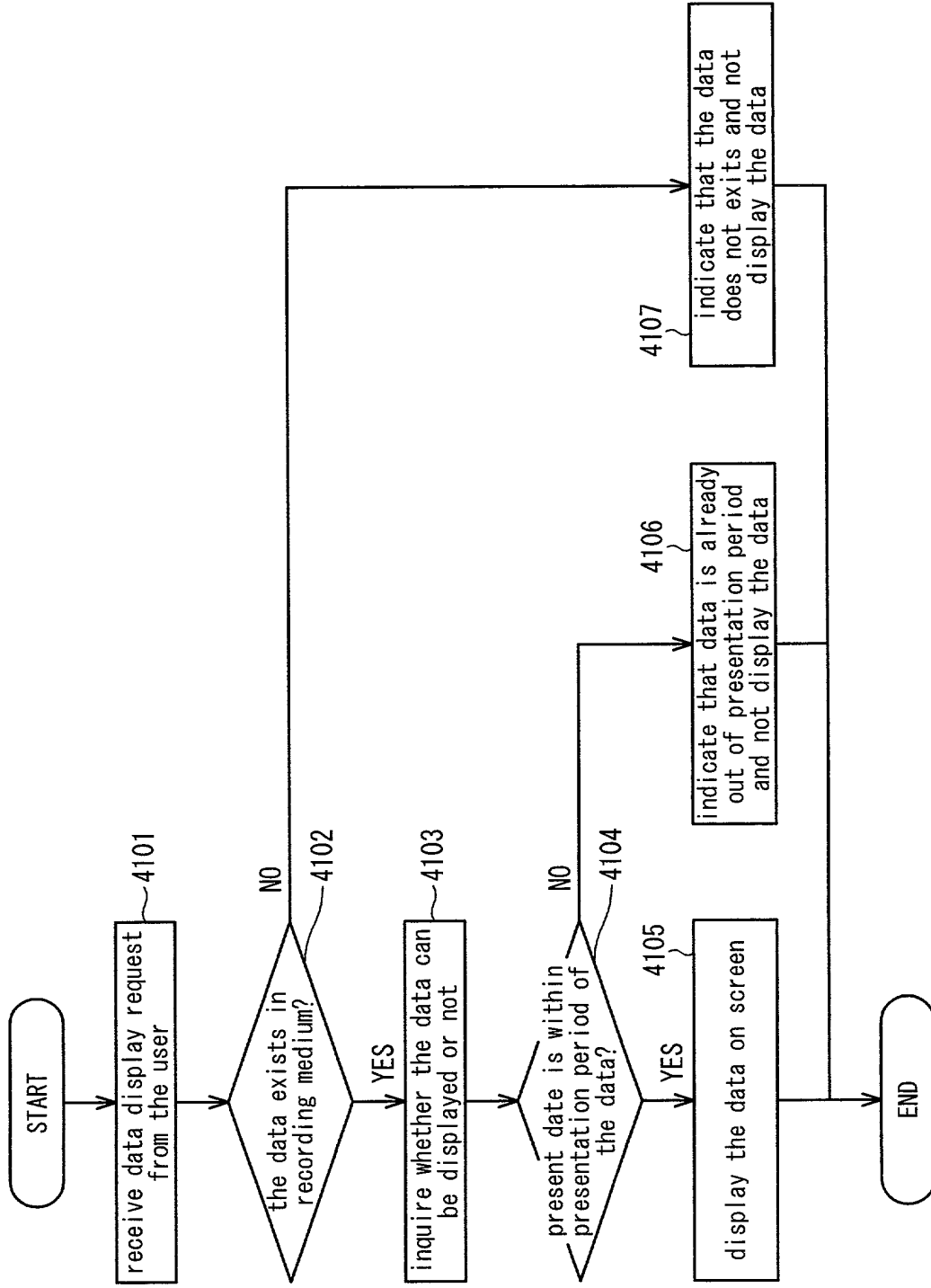


FIG. 42